

IN THE CLAIMS

This listing of the claims replaces all prior listings:

1. (Currently Amended) An electrolyte, wherein comprising:
an electrolytic solution containing at least one selected from the group consisting of vinyl ethylene carbonate and its derivatives in the range of 0.05 wt % to 5 wt % in total; and
a high molecular-weight compound polymer are contained,
wherein,
said polymer is gelatinized with said electrolytic solution, and said electrolytic solution is
diffused or held within said polymer, and
said electrolytic solution contains 95 wt % or more of a high dielectric constant solvent.
2. (Currently Amended) An electrolyte according to claim 1, wherein the electrolytic solution further contains ethylene carbonate and propylene carbonate ~~by~~ with a mass ratio of ~~ethylene carbonate:propylene carbonate = 15-75:85-25~~ ethylene carbonate to propylene carbonate ranging from about 15/85 to about 75/25.
3. (Original) An electrolyte according to claim 1, wherein the electrolytic solution further contains a nonaqueous solvent and a lithium salt.
4. (Currently Amended) An electrolyte according to claim 3, wherein the lithium salt contains at least one selected from the group consisting of LiBF₄, LiPF₆, LiAsF₆, LiClO₄, LiCF₃SO₃, LiN(CF₃SO₂)₂, LiN(C₂F₅SO₂)₂, LiC(CF₃SO₂)₃, LiAlCl₄ and LiSiF₆.
5. (Currently Amended) An electrolyte according to claim 3, wherein the nonaqueous solvent contains any one selected from the group consisting of ethylene carbonate, propylene carbonate, γ -butyrolactone, dimethyl carbonate, diethyl carbonate, ethyl methyl carbonate, dipropyl carbonate, ethyl propyl carbonate, and one wherein hydrogen of ~~these~~ carbonic acid esters is substituted with halogen.

6. (Currently Amended) An electrolyte according to claim 1, wherein the ~~high molecular weight compound~~ polymer contains any one from the group consisting of polyvinylidene fluoride, polyethylene oxide, polypropylene oxide, poly acrylic nitrile, and poly methacrylic nitrile ~~in recurring unit~~.

7. (Currently Amended) An electrolyte according to claim 1, wherein the ~~high molecular weight compound~~ polymer is polyvinylidene fluoride or a copolymer in which hexafluoro propylene is introduced in polyvinylidene fluoride.

8. (Currently Amended) A battery comprising:
a cathode;
an anode; and
an electrolyte,
wherein,
the electrolyte contains an electrolytic solution containing at least one from the group consisting of vinyl ethylene carbonate and its derivatives in the range of 0.05 wt % to 5 wt % in total and a ~~high molecular weight compound~~ are contained,
said polymer is gelatinized with said electrolytic solution, and said electrolytic solution is diffused or held within said polymer, and
said electrolytic solution contains 95 wt % or more of a high dielectric constant solvent.

9. (Currently Amended) A battery according to claim 8, wherein the electrolytic solution further contains ethylene carbonate and propylene carbonate ~~by with~~ a mass ratio of ethylene carbonate:propylene carbonate = 15-75:85-25 ethylene carbonate to propylene carbonate ranging from about 15/85 to about 75/25.

10. (Original) A battery according to claim 8, wherein the electrolytic solution further contains a nonaqueous solvent and a lithium salt.

11. (Currently Amended) A battery according to claim 10, wherein the lithium salt contains at least one selected from the group consisting of LiBF_4 , LiPF_6 , LiAsF_6 , LiClO_4 , LiCF_3SO_3 , $\text{LiN}(\text{CF}_3\text{SO}_2)_2$, $\text{LiN}(\text{C}_2\text{F}_5\text{SO}_2)_2$, $\text{LiC}(\text{CF}_3\text{SO}_2)_3$, LiAlCl_4 and LiSiF_6 .

12. (Currently Amended) A battery according to claim 10, wherein the nonaqueous solvent contains any one selected from the group consisting of ethylene carbonate, propylene carbonate, γ -butyrolactone, dimethyl carbonate, diethyl carbonate, ethyl methyl carbonate, dipropyl carbonate, ethyl propyl carbonate, and one wherein hydrogen of these carbonic acid esters is substituted with halogen.

13. (Currently Amended) A battery according to claim 8, wherein the ~~high-molecular weight compound~~ polymer contains any one from the group consisting of polyvinylidene fluoride, polyethylene oxide, polypropylene oxide, poly acrylic nitrile, and poly methacrylic nitrile ~~in recurring unit~~.

14. (Currently Amended) A battery according to claim 8, wherein the ~~high-molecular weight compound~~ polymer is polyvinylidene fluoride or a copolymer in which hexafluoro propylene is introduced in polyvinylidene fluoride.